

ABSTRACT

Polynucleotides encoding carboxylesterase enzymes and polypeptides encoded by the polynucleotides which are capable of metabolizing a chemotherapeutic prodrug and inactive
5 metabolites thereof to active drug are provided. Compositions and methods for sensitizing tumor cells to a prodrug chemotherapeutic agent and inhibiting tumor growth with this enzyme are also provided. In addition, screening assay for identification of drugs activated by this enzyme are
10 described.

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